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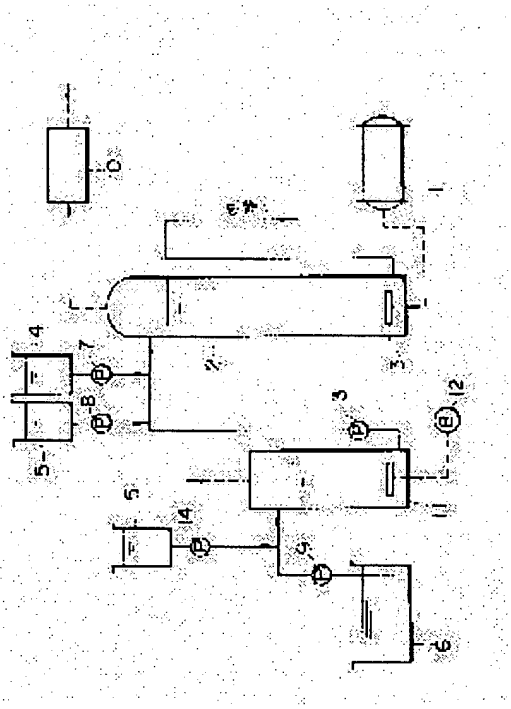
(54) TREATMENT OF WASTE WATER CONTAINING ORGANIC MATERIAL

(57)Abstract:

PURPOSE: To remove org. materials efficiently by subjecting waste water contg. org. materials and controlled to ≤4.5pH with the addition of an acid to an aeration treatment then adding an alkaline agent thereto control the pH to 6W8 and subjecting the water to an ozone treatment under addition of hydrogen peroxide.

CONSTITUTION: The raw water in a raw water tank 6 is pumped 9 into a deaeration column 11. During this time, an acid is fed from an acid storage tank 15 into the water to control ≤4.5pH. Since air is fed and diffused in the column 11 from a blower 12, the concn. of dissolved carbonic acid decreases down to the value in equilibrium with the concn. of carbon dioxide in the air. The water to be treated from the column 11 is pumped 13 into an ozone reaction vessel 2, where an alkaline agent is fed thereto to control the pH again to 6W8 and the water is subjected to an ozone treatment under the addition of hydrogen peroxide. The disturbance by the carbonate radical is eliminated and the org. materials are removed efficiently by the above-mentioned method.



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ABSTRACT:

PURPOSE: To remove org. materials efficiently by subjecting waste water contg. org. materials and controlled to ≤4.5pH with the addition of an acid to an aeration treatment then adding an alkaline agent thereto control the pH to 6~8 and subjecting the water to an ozone treatment under addition of hydrogen peroxide.

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